Guns and Ammunition, Missiles and Rockets

National Defense Industrial Association (NDIA)

Armament Division

2004 Division Status

12-16 April 2004

The Links – Who, What, Why

National

- All services
- Industry
- Jointness
- International

Defense

- Worldwide Threats
- Homeland Defense
- Readiness
- Technology and Operational Superiority

Industrial

- Communication
- Sharing
- Jointness
- Linking Government and Industry

Associ

- Industry Organization
- Spokesman for Industry
- Industry Voice
- Resources

An Organization Ensuring Strength Through Industry and Technology

Bottom Line

NDIA Focus Responsive to Industry/DoD Community Ensures Relevance

Armament Division Focus

Addressing Issues Critical to Small Arms

- Capture "lessons learned" ensures readiness shapes future
- Encouraging leverage of complementary systems
- Effective use of exhibits, demonstrations, and tours

Establishing Vision for 21st Century Relevance

Applying Synergisms to Meet Transformation/Future Goals

Leadership

Objective: Coordinated Focus and Vision for Armament Systems

Armaments Division

Dave Broden

Committees

Small Arms Systems	Guns and Ammunition Systems	Rockets and Missiles	Future TBD
Brian Berger	Don Guziewicz	Bob Foster	TBD

Responsive Organization – Ensures Relevance

Scope – Area of Interest – Responsibility Definition Clarity

Expanding Cooperation with Related Sections

Themes, areas discussed; no specific action

Committee Scope

Small Arms Systems

- Individual weapon(s)
- Crew served weapon(s) (e.g., ≤ 40mm)
- Ammunition
  - Enhanced
  - "Green"
- Full life cycle
- Supportability
  - Training
  - Logistics
- System integration
- Target Acquisition/Fire Control System (TA/FCS)
- Networked capabilities
- Non lethal
- Homeland Defense systems

Guns and Ammunition

- Medium caliber systems
- Tank systems
- Mortar systems
- Artillery
- Naval gun systems
- Aircraft/helicopter systems
- Precision systems
- Platform integration
- Manned/robotic
- System integration
- TA/FCS
- Supportability
- Life cycle

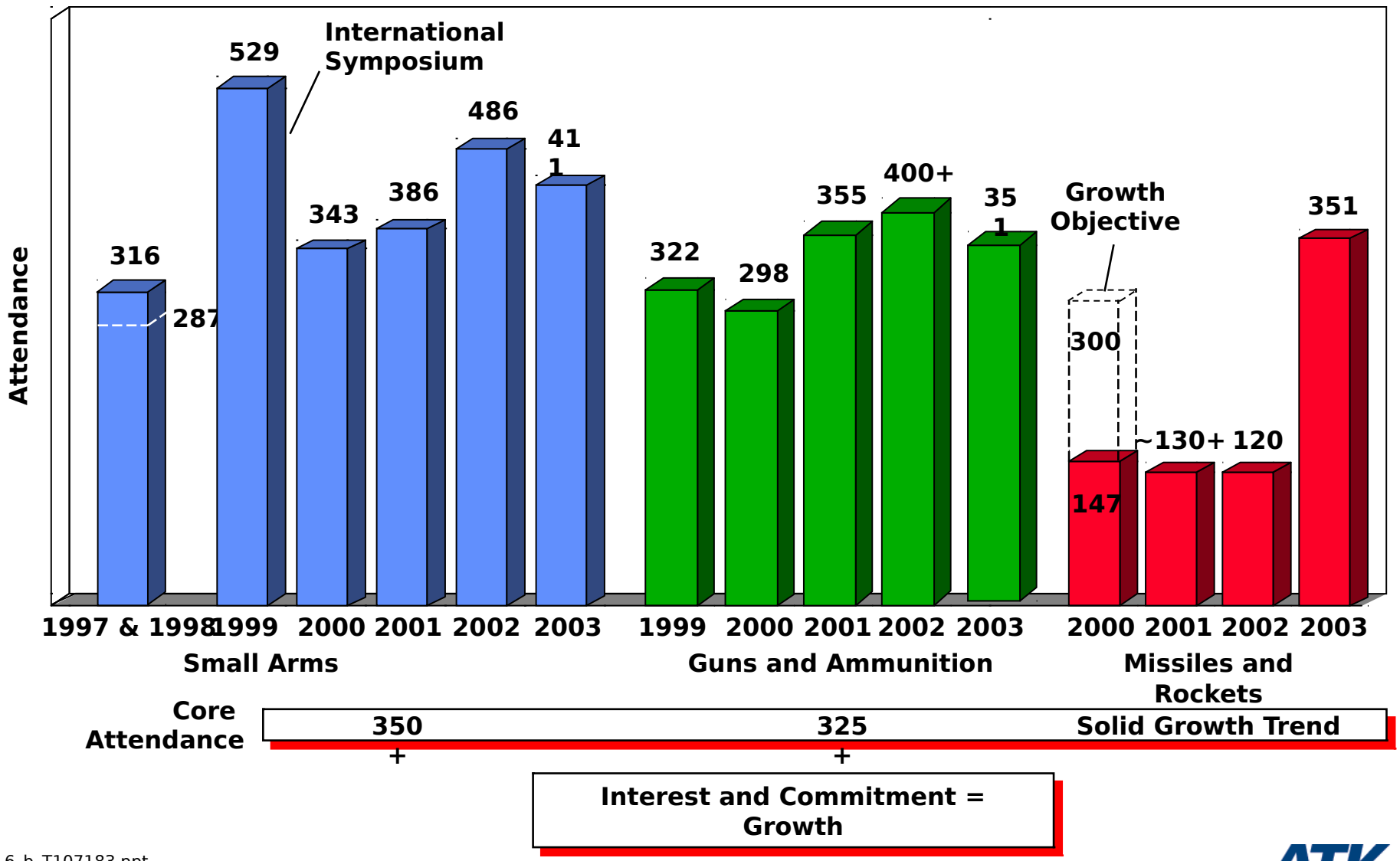
Missiles and Rockets

- Tactical missiles and rockets
- Shoulder fired systems
- Ground launched
- Aircraft/helicopter launched
- Precision systems
- System integration
- Manned/robotic
- Life cycle

Common Enabling Technologies, Modeling/Simulation, Man-Tech

Links to Other Committees

Armament Division Attendance Summary



2004 Symposium

Guns and Ammunition

Missiles and Rockets

Adaptations for Success: Joint Programs, Operations, and Missions

Addressing the Theme!

- **Joint Capability**
- **Joint Requirements**

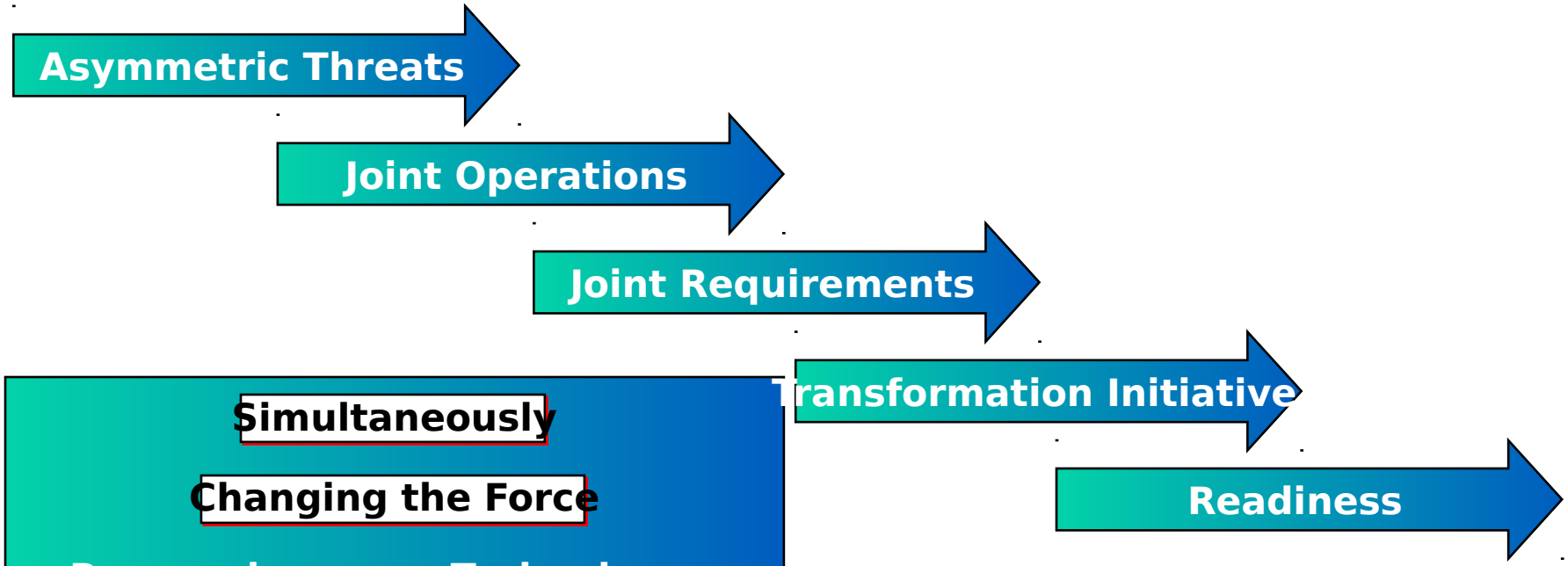
- Pushing technology envelope
- Pushing integration envelope
- Adding functions
- Manned and robotic applications

Applying Common Technologies and Integrated Systems

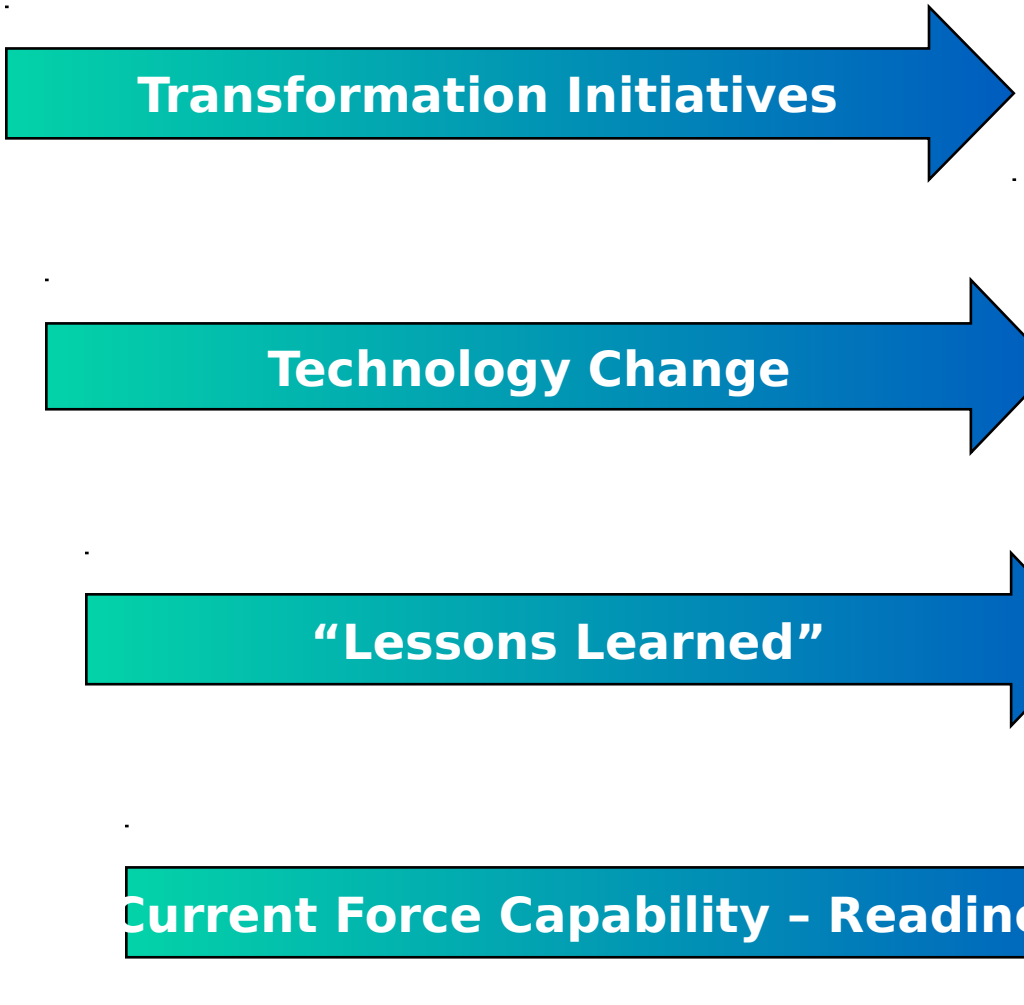
- Capability f
- Address key force multipliers
  - Precision
  - Mobility
  - Communication
  - Situation awareness
  - Lethality
- Planning and implementing Spiral Development

Enabling an Integrated Joint Force Capability

Joint Services: Defining and Executing the Change
Industry: Ensuring Technology and Product Availability – Evolution



Multiple Activity Shaping the Future Force



Panel Discussions

2003

Convergence of Rocket/Missile Technology and Gun/Ammunition Technology

2004

"Lessons Learned"

"After Action Report"

Applying "Lessons Learned" to Evolving Armament Requirements – Technology – Products and Applications

- **Successes**
- **Issues**
- **Needs – Enhancements**

Panel Discussions Add Meeting Focus/Depth

Small Arms Systems

Meeting the Needs of Our Joint Ground Forces in the Fight Against Terrorism and Developing the Tools for Future Combat

Address and Focus on the Theme

DoD and Homeland Defense Capabilities

- Joint Force operations and capability
- Response to asymmetric threats
- Adapt systems and technology for operational flexibility — Jointness
  - Responsiveness
- Push technology envelope(s)
- Push integration efficiencies
- Add functional capabilities
- Introduce new systems

Lessons Learned" — Responsive Force — Jointness — Technology Chang
Shape the Future

Armament Division Success

Guns and Ammunition/Missiles and Rockets

Small Arms Committee

Value Added Has Been Demonstrated

dership to Strengthen the Armament Communi

allenge: Applying Technology, Systems for Future Forc

Ensuring Readiness . . . . Advancing Superior Capability

Symposium Benefits Confirmed

Increasing Interest/Participation

Symposium Observations

- Improved links to DoD and service thrusts and initiatives
- Interest in “after action reports” — “lessons learned” → industry responsiveness
- Observed interest in systems level presentation vs. technology unless technology offers payoff vision
- Presentation quality and “So What” message has improved — adds value
- Increased industry sensitivity to intellectual property positions limiting topics from industry
  - Need to work beyond this topic
- Industry leadership on presentations is lagging DoD/service PMs, centers, labs in some areas → need increased industry thrusts

Important Emerging NDIA Division Role

- Enable effective communication of “after action reports” lessons learned

  and

- Provide forum for dialogue and focus

  to

- Realize appropriate changes
  - Capability improvements
  - Corrective actions
  - Technology insertion
  - New systems

Approach:
- Special symposium, special studies, Governm industry study groups, integrate with symposiums
- Applying NDIA resource of Government and industry

Armament Division 2004

Ensuring Relevance

- Evolve executive committee
  - Integrate relevant organization(s) for future
    - Industry
    - Government
- Reshape and define division charters to ensure relevance/clarity
- Symposium themes
  - Future “vision” focus
  - Support readiness topics
- Symposium content
  - Include emerging technology and capability
  - Panels
  - Interactive format
  - Increase industry presentations and messages
- Attendees
  - Participation is growing resource

Armament Division is Key to Current and Future Force Capability

NDIA International Symposium Links

Objective: International cooperation and integration of symposiums benefiting industry and Department of Defense to encourage partnerships for development, production, and interoperability

Approach:
- Coordination of NDIA Armament Division programs with "Symposium at Shrivenham" The Royal Military College of Science
- Common presentations and panel participants is a strong "open door" resource

European Small Arms and Cannon Symposium

August 2004

NDIA Communications

- National Defense Magazine
  - Emphasis on relevant and timely topics
  - Frequently source of media, DoD, and Congressional reference
- Website
  - Symposium presentations available — attendee access
  - Complementary information
  - Full list of activity
- Top public policy issues — prioritized — addressed to Congress — strengthen the community

NDIA Messages and Content Has Impact

and

Website Used Extensively as Resource

2004 Top Defense Issues

- Issue 1: Funding America's Defense for Wartime and Transformation
- Issue 2: Supporting the Defense Industrial Base
- Issue 3: Focus on Human Capital
- Issue 4: Ethical Conduct in Federal Procurements

NDIA Board of Directors Approved Focus

Established by Government Policy Advisory Committee

Leadership Vision

NDIA Armament Division Is:

- A relevant voice and forum
- Responsive to DoD community and industry challenges
- A forum for DoD/industry interaction discussion of “lessons learned” and needs
- Supporting national defense through people resources, networking, and symposiums
- Transforming to ensure relevance to changing military, geopolitical environments, and technology

The NDIA Community is the Resource of Choice For Excellence in National Defense Topics/Communications